THE COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, D.C. 20231

Sir:

Transmitted herewith for filing is the Utility patent application of:

INVENTOR: Seishi HANAOKA and Takashi YANO

For:

CHANNEL ESTIMATION METHOD FOR A MOBILE COMMUNICATION SYSTEM

Enclosed are:

- □ 16 sheets of □ formal □ informal drawings.
- ☑ Transmittal of Japanese patent application 2003-052234 to claim priority date of February 28, 2003.
- ☑ An assignment executed by inventor to Hitachi, Ltd.
- ☑ A Information Disclosure Statement
- ☑ The filing fee is calculated as shown below:

For	Numbe	R FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	19	-20	0	x\$18 =	0.00
INDEPENDENT CLAIMS	2	-3	0	x\$84 =	0.00
MULTIPLE DEPEND	, 				
			BASIC FEE)	\$750.00
			TOTAL OF ABOVE		750.00
REDUCTION BY ⅓ FOR F			e 37 C.F.R. §§ 1.9, 1.27, 1.28).	
				TOTAL	750.00

Please charge my Deposit Account Number	_ in the amount of	_ to cover	the filing an	nd assignment recordatio
fee. A duplicate copy of this paper is enclosed.				

- A check in the amount of \$790.00 to cover the filing fee and assignment fee is enclosed.
- The Commissioner is hereby authorized to charge any additional fees associated with this communication, including patent application filing fees and processing fees under 37 C.F.R. § 1.16 and 1.17, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

Stanley P. Fisher

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Juan Carlos A. Marquez Registration Number 34,07

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June 23, 2003